REPORT

OF THE

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EXAMINATE CANADA

FOR THE

WONTH OF HUILT SOIG

D. C. HOWARD

John Colonel, Masical Corps, United Stazas Army, Open Hoalth Officer, Balbon Heighty, Canal Zone

Gift of the Panama Canal Museum

WASHINGTON 1946



REPORT

OF THE

DEPARTMENT OF HEALTH

OF THE

PANAMA CANAL

FOR THE

MONTH OF JULY, 1916

D. C. HOWARD

Lieut. Colonel, Medical Corps, United States Army, Chief Health Officer, Balboa Heights, Canal Zone

> WASHINGTON 1916



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THE THE PROPERTY OF THE

LETTER OF TRANSMITTAL.

THE PANAMA CANAL, CANAL ZONE, HEALTH DEPARTMENT, Balboa Heights, August 11, 1916.

Col. CHESTER HARDING,
Acting Governor The Panama Canal,
Balboa Heights, Canal Zone.

Sir: I have the honor to submit the following report of the operations of the department of health for the month of July, 1916. Very respectfully,

D. C. HOWARD, Chief Health Officer.

GENERAL REMARKS.

No case of yellow fever, smallpox, or plague originated on or was brought to the Isthmus during the month.

VITAL STATISTICS OF EMPLOYEES.

The health of the employees remained good during the month. The following statistics are based upon the number of names appearing on the rolls for the preceding month, which was 33,787.

The total number of admissions to hospitals and quarters was 738, a rate of 262.11, as compared with 287.99 for the preceding month,

and 389.22 for the corresponding month last year.

The total number of deaths from all causes was 12. Of these, 7 died from disease, giving a death rate of 2.49, as compared with 6.48 for the preceding month and 3.34 for the corresponding period of last year.

The constantly noneffective rate was 8.35, as compared with 9.48 for the preceding month and 10.71 for the corresponding period of

last vear.

The total admission rate for malaria, hospitals and quarters, was 42.26, as compared with 23.61 for the preceding month and 101.39 for July, 1915. The total noneffective rate was 1.41, as compared with 0.70 for last month and 1.94 for the month of July, 1915. The increase in admission rate for malaria, as compared with the preceding month, is due chiefly to a seasonal outbreak occurring among silver employees living in unscreened houses in New Gatun and the Folks River district of Colon. The malaria rate in other districts is low.

¹ All morbidity and mortality rates are computed as equivalent annual per 1,000.

The diseases, next to malaria, causing the highest admission rates to hospital, in the order of their numerical importance, were: Venereal diseases, diseases of the digestive system, nonvenereal diseases of the genito-urinary system, and diseases of the circulatory system. These five classes of diseases caused 57 per cent of all admissions to hospitals. Twenty-seven per cent of all admissions to hospitals were caused by malaria.

There were two admissions for typhoid fever during the month of July, giving an admission rate of 0.71. There were no admissions

during the previous month and none in July, 1915.

EFFECTS OF RACE.

The admission rate to hospital and the death rate from disease for black employees, were 91.78 and 2.44, respectively, as compared with 83.07 and 7.55 for the last month and 199.57 and 2.68 for the corresponding month last year. For white employees the admission rate to hospital and the death rate from disease were 283.09 and 2.83, respectively, as compared with 261.97 and 0.0 for the preceding month and 520.32 and 7.54 for the corresponding period last year.

The admission rate to hospitals and quarters for malaria was 36.14 per thousand for blacks and 84.93 for whites, as compared with a rate of 16.88 for blacks and 64.15 for whites for last month, and 76.52 for blacks and 263.93 for whites for the corresponding month

of last year.

There was one death among American employees during the month, giving a death rate of 2.83, and none during the month of June; the death rate among Americans for July, 1915, was 5.63. The admission rate to hospitals from disease was 202.63, as compared with 195.03 for last month and 366.20 for the corresponding month of last year.

DEPORTATIONS.

There were 16 deportations accomplished during the month, 12 employees and 4 nonemployees, all for disease.

CANAL ZONE.

The population of the Canal Zone, as shown by a census taken by the police department during the month of June, 1916, was 31,048. This includes employees, nonemployees, and military garrisons, residing or stationed within the Canal Zone limits. There were 39 deaths among the residents of the Canal Zone during the month of July, of which 32 were from disease, giving a death rate of 12.37, as compared with 8.12 for the preceding month and 11.58 for the corresponding month last year.

Of the total deaths from disease the percentage under 5 years of

age was 53, as compared with 62 for last month.

There were 45 births reported, giving a rate of 17.39; of these, 16 were white and 29 colored.

There were 10 deaths of children under 1 year of age, 2 white and 8 colored, giving an infant mortality rate, based upon the number of births reported for the month, of 125 for white and 276 for colored, with a general average of 222. The percentage of still-births to total births was 4.

PANAMA CITY.

The population of the city is 60,778, among whom there was a total of 157 deaths; of these, 150 deaths were from disease, giving a rate of 29.62, as compared with 30.01 for the preceding month and 25.24 for the corresponding period last year.

Of the total deaths from disease the percentage under 5 years of

age was 54, as against 53 for last month.

The principal causes of death showing an increase as compared with last month were: Tuberculosis, 24, as compared with 20 for the preceding month; abscess of liver 3, as compared with none last month; arteriosclerosis 3, as compared with none last month.

There were 250 births reported, giving a rate of 49.36. There were 56 deaths under 1 year of age, giving an infant mortality rate, based upon the number of births reported for the month, of 224.

The percentage of stillbirths to total births was 10.

COLON.

The population of the city is 24,693, among whom there were 42 deaths from disease, giving a rate of 20.41 per thousand, as compared with 24.30 for the preceding month and 24.14 for the corresponding month of last year.

Of the total deaths from disease the percentage under 5 years of

age was 49, as compared with 40 for the preceding month.

The principal causes of death showing an increase as compared with the preceding month, were: Tuberculosis 8, as compared with 5; acute bronchitis 5, as compared with 3; broncho-pneumonia 3, as compared with 2.

There were 82 births reported, giving a rate of 39.85, with an infant mortality rate, based upon the number of births reported

for the month, of 183.

The percentage of stillbirths to total births was 7.

DIVISION OF HOSPITALS.

ANCON HOSPITAL.

The average number of patients constantly in hospital during the month was 725. The daily per capita cost per patient in the hospital proper was \$1.61 gross for June, while for the insane asylum it was \$0.445 for June.

Chronic ward.—There were 2 admissions, 7 discharges, and 3 transfers during the month, and the number of chronic and incurable patients constantly cared for during the month was 22.55.

The cost per patient was \$0.2423 for June.

Board of health laboratory.—In addition to the routine work of the laboratory the mosquito census was continued during the month. There were sent to the laboratory for identification 50,837 mosquitoes from various stations on the Zone and from the terminal cities. Numbers were as follows:

Anopheles albimanus. Anopheles tarsimaculata. Anopheles damaged. Culex and allied genera. Mansonia titillans Stegomyia.	1,167 1,061 6 981
Mansonia titillans Stegomyia Ædes tæniorhynchus All others.	356 753 50

The west side of the canal continues relatively free from Anopheles albimanus and other malaria-carrying mosquitoes. In the Gatun and Cristobal Districts, however, the albimanus is relatively prevalent and malaria admissions are relatively higher than in other districts.

Corozal Hospital (insane).—There were during the month 19 admissions, 12 discharges, and 8 deaths. Included in the discharges was one patient transferred to Ancon Hospital for surgical treatment. There were 5 deportations to the United States, 4 soldiers and 1 charity case. The general health of the patients and cripples remains good.

Plans for the construction of a concrete addition to the piggery and reconstruction of a type 17 cottage for nurses' quarters were begun during the month; work on this construction will start shortly.

The number of days relief furnished, insane department, was 8,969, at a net cost per patient day of \$0.4256.

COLON HOSPITAL.

The average number of employees constantly sick in hospital was 27.59. The average number of day's treatment per employee was 7.19. The per capita cost of patients per day for June was \$2.86 gross.

Detailed statistics are shown in Table XIV.

PALO SECO LEPER ASYLUM.

The number of patients at the end of the preceding month was 65, and at the end of July 67. There were 2 admissions, no deaths,

and no discharges.

The water supply for the asylum, which came from a well within the hospital grounds, began to fail to furnish the required supply about the middle of July; since then the supply has grown less and less and it was decided to sink another well farther back on a higher elevation. The municipal engineer is now making a new boring. It will be necessary to haul water for drinking and cooking purposes by boat from Balboa while the change in supply is being effected.

Work on the new ward for patients is progressing well. The work is being done by patients' labor under special authority of the governor.

SANTO TOMAS HOSPITAL.

During the month 1,339 patients were treated in the hospital, as compared with 1,345 for the preceding month. The daily average number of patients was 456, as compared with 441 for June, and the total number of day's treatment was 14,134, as compared with 13,632 for the preceding month. The number of deaths was 94, with pulmonary tuberculosis, congenital debility, diarrhea, and enteritis (in infants) the chief causes in the order named. There were 5 cases of typhoid fever treated, with no deaths, and 6 cases of pneumonia, with 4 deaths.

The necessity for providing separate accommodations for the large number of tuberculosis patients which are now treated in this hospital at a great menace to other patients, has again been taken up with the Panama Government, and it is hoped that some assurance may be obtained from the Government that appropriate action

will be taken.

Detailed statistics are shown in Table XVI.

DISTRICT DISPENSARIES.

The dispensary having the highest admission rate for malaria was Gatur, with a percentage of 0.61. The lowest rate was in the

Ancon-Corozal district, with a percentage of 0.03.

A new motor ambulance was received and placed in service in the Balboa District during the month. This provides transportation for the district physician in making professional calls, as well as transportation for patients transferred to and from Ancon Hospital.

Work on the construction of the new Ancon Dispensary began

August 1.

Detailed statistics are shown in Table IX.

SANITATION.

CANAL ZONE.

The usual sanitary work has been carried on during the month.

The districts in general are in a very satisfactory condition.

Work has been begun on hydraulic fills in the Balboa flats and at Paraiso. Many old insanitary quarters at New Gatun were condemned and demolished during the month. Steps have also been taken toward the condemnation and removal of insanitary dwellings in Paraiso.

The following communicable diseases were reported during the month:

THE CALL OF THE CA				
Dysentery Pneumonia. Whooping cough Tuberculosis Chickenpox Diphtheria.	7	Mumps	1 2	

PANAMA CITY.

During the month of July there were 11 admissions to Ancon Hospital and 24 to Santo Tomas Hospital for malaria, a total of 35 cases as compared with 71 cases during the same period last year. One death occurred, in the case of a Spanish child eight years of age, living in the suburbs.

Antimosquito work was carried on in all the districts of the division, and the total number of mosquito-breeding places encountered during the month by all inspectors was slightly less than

for the previous month, 311 as against 350.

Most of the lot owners at Bella Vista finished removing the vegetation from their lots, and work of a similar nature was commenced in the exposition grounds and will be completed during the present month. On Government-owned lots, vegetation has been cut by squads of city prisoners, thus aiding considerably the forces of the health office.

Panama Railroad piers.—Several months ago the question of ratproofing the old piers belonging to the Panama Railroad in Panama Bay, was considered, and it was found impracticable to make these piers rat proof and their destruction was decided upon. During the month of July the work of demolishing the "American wharf" was begun and will be completed during the present month.

Vaccination.—At the opening of the schools in Panama during July, arrangements were made for vaccinating all children in need of it, and this work was started during the last few days of the month. A total of 295 vaccinations were performed during the last five days of July. The work is much easier this year than last, owing to the fact that records have been kept in the schools showing what children were vaccinated, and when the inspector goes to a school now, the children are prepared for his coming, and a great deal of time is saved that was lost in the preliminaries last year.

The following communicable diseases were reported during the

month:

Malaria	35 11 26	Chickenpox Diphtheria Leprosy Pellagra	6 2
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COLON.

The antimosquito work for the district has been extended during the month so as to cover a wider area on Mindi Island than had been previously contemplated. As a consequence, the marshy areas have been rendered dry, a number of anopheles-breeding places eliminated, the daily anopheles catch for Camp Bierd and Mount Hope decreased and the malaria rate for the cities reduced. Quite extensive filling operations are planned for immediate completion at Mount Hope. These include swamp 7, 7A, and 7B; swamps 3B, 3C, and 3D, and the Union Oil section. This work will reduce the expense of maintenance of some of our worst areas and should bring about a considerable reduction in the malaria incidence.

A concrete, rat-proofed pier for handling the cayuca and small boat trade in coconuts, ivory nuts, etc., is undergoing erection at Folks River.

The following communicable diseases were reported during the

month:

Malaria	40	Whooping cough	1
Pneumonia	3	Tuberculosis	3
Measles	3	Typhoid fever	1

QUARANTINE.

No disease of a quarantinable nature arrived at or occurred on

the Isthmus during the month.

The plague situation on the west coast of South America shows no marked changes. Passengers state that this disease is very prevalent at Manta, Ecuador, though it is not officially reported as existing in this port. Returning passengers from Buenaventura, Colombia, advise that the town is not in a very good sanitary condition, that refuse is being allowed to accumulate, and that the locality is slipping back into its former unclean condition.

On the Atlantic side the quarantine officer has had some difficulty in enforcing antiplague regulations on vessels working at the docks. This matter will be investigated for the purpose of having this condition corrected. No mosquito breeding was found on sailing vessels at Cristobal-Colon during the month

referred to.

The anthrax situation in the supply department pastures, Colon, shows little improvement. There were 19 deaths from the disease during the month. The disease appeared in three pastures that had been previously used as quarantine pastures. Steps have been taken to vaccinate all incoming cattle which are intended for fattening in noninfected pastures. About 300 cattle have been vaccinated and are now in the Miraflores pastures. As anthrax spores persist in swampy parts, steps have been taken to clear and drain the water holes and swampy areas in infected pastures, and these will later be fenced off from the pasture proper and artificial watering places provided. New pastures are being prepared and it is estimated that pasture provisions for a reserve of 3,300 cattle will be ready by September 1. All cattle in these pastures will be vaccinated. The services of an expert from the Bureau of Animal Industry, Department of Agriculture, have been asked for to assist in the control of the disease.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE.

ABSOLUTE NUMBERS.

	Number of employees.		nission ospital:		1	Deaths		None tive sick	effec- from ness.
		Total.	Disease.	External causes.	Total.	Disease.	External causes.	Days treated.	Constantly non- effective.
July, 1916.									
White	4, 239 29, 548	126 293	100 226	26 67	1 11	16	₅	2,409 6,337	77.72 204.40
Total	33, 787	419	326	93	12	. 7	5	8,746	282.12
June, 1916.									
White	4,489 27,012	117 258	98 187	19 71	20	····i7	3	2,575 6,380	85.82 212.66
Total	31, 501	375	285	90	20	17	3	8, 955	298.48
July, 1915.									
WhiteColored	4,774 31,207	207 519	183 400	$\frac{24}{119}$	3 14	3 7	····· ₇	3,181 8,771	102.60 282.92
Total	35, 981	726	583	143	17	10	7	11,952	385.52

PROPORTIONATE NUMBERS.

July, 1916.								
White Colored			283.09 91.78			2.83 2.44		 18.34 6.92
Total	33, 787	148.81	115.78	33.03	4.26	2.49	1.78	 8.35
June, 1916.	-				-			
White Colored	4,489 27,012	312.76 114.61	261.97 83.07	50.79 31.54		7.55	1.33	 19.12 7.87
Total	31,501	142.81	108.54	34.27	7.62	6.48	1.14	 9.48
July, 1915.								
White Colored			460.00 153.81			7.54 2.68	2.69	 21.49 9.06
Total	35, 981	242.12	194.43	47.69	5.67	3.34	2.33	 10.71

¹Annual average per 1,000.

TABLE I.—ADMISSIONS, DEATHS, AND NONEFFECTIVE RATES FOR EMPLOYEES; DEATHS OF RESIDENTS OF PANAMA, COLON, AND THE CANAL ZONE—Continued.

			Deaths.		Annual average per thousand.			
	Popu- lation.	Total.	Dis- ease.	Exter- nal causes.	Total.	Dis- ease.	Exter- nal causes.	
July, 1916.								
Colon	60,778 24,693 31,048	157 47 39	150 42 32	7 5 7	31.00 22.84 15.07	29.62 20.41 12.37	1.38 2.43 2.71	
Total1	16, 519	243	224	19	25.03	23.07	1.95	
June, 1916.								
Colon	60,778 24,693 31,048	154 52 27	152 50 21	2 2 6	30.40 25.27 10.44	30.01 24.30 8.12	.39 .97 2.32	
Total	16, 519	233	223	10	24.00	22.97	1.03	
July, 1915.								
Colon	60, 373 29, 331 30, 057	129 61 37	127 59 29	2 2 8	25.64 24.95 14.77	25. 24 24. 14 11. 58	.40 .81 3.19	
Total 1	19, 761	227	215	12	22.74	21.54	1.20	

TABLE II.-DEATHS BY AGE, COLOR, AND SEX, JULY, 1916.

	White.			С	Colored.			Yellow. Total.		Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Under 1 year	4 1 2 4 2 2 1	4 1 1 1 5 1 	8 2 1 1 3 9 3 2 1	38 21 4 1 22 12 8 4 2 1	35 15 1 3 19 10 4 4 	73 36 5 4 41 22 12 8 2 1 1	1 1 1 1		1 1 1 1	42 22 4 1 25 17 11 6 3 2	39 16 2 4 20 15 5 4	81 38 6 5 45 32 16 10 3 2 2
Total	16	15	31	116	92	208	4		4	136	107	243

TABLE III.-DEATHS BY NATIONALITY, JULY, 1916.

Nation.	Em- ploy- ees.	Non- em- ploy- ees.	Total.	Nation.	Em- ploy- ees.	Non- em- ploy- ees.	To-
Antigua Antilla Argentina Barbados British Guiana Colombia China Cuba Costa Rica Dominica England France Grenada Guadeloupe Haiti	5	1 1 36 1 11 4 1 1 1 1 1 2 2	2 1 1 41 11 11 1 1 1 1 1 2 2	Italy Jamaica Martinique Montserrat Panama Peru St. Lucia St. Vincent Spain Trinidad United States Unknown	1	9 1 3	3 64 5 3 60 3 9 1 3 4 12 5 5 243

TABLE IV.—DEATH RATE AMONG AMERICANS ON THE ISTHMUS CONNECTED WITH THE PANAMA CANAL.

	Number of deaths.	Annual average per 1,000.
White employees from the United States (4,027): Disease External causes	1 0	2, 98
Total	1	2.98
White women and children from the United States (3,267): Disease External causes	4 0	14. 69
Total	4	14.69
White employees and their families from the United States (7,294): Disease External causes	5 0	8, 23
Total	5	8. 23
Total number of Americans on the Canal Zone, including soldiers and their families (15,481): Disease. External causes	5 3	3. 87 2. 33
Total	8	6. 20

TABLE V.—CAUSES OF DEATHS OF EMPLOYEES OF THE PANAMA CANAL AND PANAMA RAILROAD CO.

Causes of death.	White.	Colored.	Total.
Disease.			
Tuberculosis, pulmonary. Cancer and other malignant tumors of the perito-		1	1
neum, intestines, rectum. Alcoholism (acute or chronic). Cerebral hemorrhage.		1	1
Lobar pneumonia. Appendicitis. Diseases of the urethra, urinary abscess, etc		1 1	1 1 1
Total.	1	6	7
External causes.			
Accidental drowning		2 1 2	2 1 2
Total		5	5
Total from all causes	1	11	12

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOY-EES AND NONEMPLOYEES) AND MILITARY, AND PLACES WHERE CHARGEABLE.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
General diseases. Typhoid fever. Malarial fever, estivo-autumnal Diphtheria and croup. Croup. Purulent infection and septicemia. Septicemia. Pellagra Beriberi. Tuberculosis of the lungs. Tuberculosis of other organs. Disseminated tuberculosis. Syphilis, tertiary. Cancer and other malignant tumors of the stomach and liver. Cancer and other malignant tumors of the peritoneum, intestines, rectum. Other general diseases. Alcoholism, acute or chronic. Alcoholism, acute or chronic. Alcoholism, chronic.	18 1 5 2 1 1	6 2		1 6 6 1 1 1 1 1 1 1 3 3 2 2 4 1 1 1 1 1 2 2 2 2 1 1 1 2 2 2 2
of special sense. Simple meningitis. Cerebral hemorrhage, apoplexy. Softening of the brain. General paralysis of the insane. Epilepsy. Convulsions of infants (under 5 years of age)	1	1	1 1 1	2 2 1 1 2 2

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOY-EES AND NON EMPLOYEES) AND MILITARY, AND PLACES WHERE CHARGEABLE—Continued.

Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
Diseases of the circulatory system. Pericarditis. Acute endocarditis Organic diseases of the heart Aneurysm. Arteriosclerosis Embolism and thrombosis.	1 7 1	2		1 1 9 1 3 2
Diseases of the respiratory system. Acute bronchitis Broncho-pneumonia. Pneumonia (unqualified). Lobar pneumonia. Empyema. Pulmonary congestion, pulmonary apoplexy Gangrene of the lungs. Asthma. Diseases of the digestive system.	6 4 4 1 1	5 3 1 1	3	7 12 4 6 1 1 1
Diarrhea and enteritis (under 2 years)	- 6 1 3	1	1	47 7 1 1 3 2
Bright's disease (chronic nephritis). Other diseases of the kidney and annexa. Diseases of the urethra, urinary abscess, etc. Stricture of the urethra, nonvenereal. Salpingitis and other diseases of the female genital organs.	1	2 1	1 3 2	3 4 2 1
The puerperal state. Puerperal hemorrhage	1 1 1			1 1 1
Congenital debility, icterus, and sclerema. Premature birth Congenital debility Malnutrition Other causes peculiar to early infancy (including various consequences of labor).	6 1 3	1 1 2 2 2	1	2 7 3 6
Old age. Senility	2			2

TABLE VI.—CAUSES OF DEATHS OF CIVIL POPULATION (EMPLOY-EES AND NONEMPLOYEES) AND MILITARY, AND PLACES WHERE CHARGEABLE—Continued.

was a second and a second a second and a second a second and a second				
Disease.	Pana- ma.	Colon.	Canal Zone.	Total.
Affections produced by external causes. Suicide by firearms. Acute poisonings. Conflagration. Accidental drowning. Traumatism by firearms. Traumatism by fall. Traumatisms by crushings (vehicles, railroads, landslides, etc.). Homicide by other means. Fracture (cause not specified).	1 1 1 1		1 1	3 1 5 3 1 1 1 2 1 2
· Ill-defined diseases.	3	1		4
Cause of death not specified or ill defined				4
Total: Stillbirths		47 6	39 2	243 33
Grand total	182	53	41	276
Died from disease	150 7	42 5	32 7	224 19
Total	157	47	39	243

DEATHS OF NONRESIDENTS.1

Nationality.	Color.	Sex.	Age.	Diagnosis.
Panaman	Black	Male	70	Fever, undeter mined.
do	do	Female.	44	Chronic nephritis.
			43	Cardiac hypertro
Colombian.	do	do	43	Chronic nephritis.
Panaman	do	Female.	60	Arteriosclerosis.
			2 8	Traumatism by fire arms.
Panaman	do	do	68	Strangulated hernia
			33	Myocardial insuffi ciency.
Panaman	White	Female.	25	Pulmonary tuber culosis.
Spanish	do	Male	19	Heat exhaustion.
Panaman	Black	do	22	Chronic diffused ne phritis.
Colombian.	do	do	50	Chronic nephritis.
			49	Softening of brain.
			40	Carbuncle.
	PanamandododoColombian.PanamanColombian.PanamanPanamanPanamanColombian.PanamanColombian.Panaman	Panaman Black do Panaman do White Spanish do Panaman Black Colombian do Panaman do	Panaman Black Male do do female do do Male do do female do do female do do female do	Panaman Black Male 70 do do Female 44 do do Male 43 Colombian do do 43 Panaman do de de Colombian do de de Panaman do de de Cuban do de de Spanish do Male de Spanish do Male de Panaman Black do de Colombian do de de Panaman do de de

 $^{^{\}rm 1}$ Deaths of nonresidents are not included in the statistical charts relating to the cities of Panama and Colon or of the Canal Zone.

TABLE VII.—ADMISSIONS AND DEATHS

					F	mpl	loyee	s.				
		A	dmi	ssion	ıs.				Dea	ths.		
Diseases.		Wł	nite.					Wh	ite.			
		neri- ns.		iro-	Bla	eck.		eri- ns.		ro- ns.	Bla	ck.
	M.	F.	М.	F.	м.	F.	М.	F.	М.	F.	м.	F
General diseases.												
yphoid fever	1				1							
tumnal	10		10		75	1	ļ					
falarial fever, tertian	3		1		8							
falarial fever, quartan					ĭ							
Ialarial fever, clinical					3							
<u> Ieasles</u>					2							
Vhooping cough					···i·				• • • •			
iphtheria and croup	:-		;-		1							
nfluenza	1		1		1				• • • •			
holera nostras		• • • •			1				• • • •	••••		
ysentery		• • • •								••••		
ysentery, entemoebic) ysentery, bacillary hicken pox 'ilariasis.			1							• • • •		
Dysentery, bacmary							• • • •		• • • •			• •
nicken pox					2				• • • •			
liariasis					1				• • • •	• • • •		
Beriberi					:-		• • • •					
Suberculosis of the lungs	1		1		5			• • • •	• • • •	• • • • •	1	
ott's disease							• • • •		• • • •	• • • •	• • • •	
Suberculosis of the lymph	i			-	2							
glands Suberculosis of the genito-					2							
urinary organs			1									1
Disseminated tuberculosis.			••••		i		i		• • • •			
yphilis, secondary			• • • • •		2				• • • • •			
					17							
vobilis, period not stated	-		-		4							
yphilis, period not stated. Jonorrhea	1				7							
Conorrheal orchitis and	1				'					• • • • •		
epididymitis					5							l
oft chancre	4				6							
denitis chancroidal			1									
ancer and other malignant						l						
tumors of the peritoneum,												
intestines, rectum											1	
cancer and other malignant												
tumors of the female geni-												
tal organs					1							
ancer and other malignant												
tumors of the skin												
Other tumors (tumors of the												
female genital organs ex-												
cepted) Acute articular rheumatism												
cute articular rheumatism					1							
Chronic rheumatism and	1	1		1	1				1			1

19

IN THE HOSPITALS OF THE PANAMA CANAL.

				its.	ide	res	on	No						es.	ploye	nem	No			
			ths	Dea		ıs.	ion	ssic	mi	Ad		hs.	Deat	I			ons.	nissi	Adr	
ns.														w.					w.	, .
Total admissions.		В.	I	7.	V	•	В		<i>r</i> .	W	3.]	iers.	Oth	Sol- d'rs	3.	I	iers.	Otl	Sol- i'rs.
Totala		F	М.	F.	м.	F.	r.	М.	F.	М.	F.	м.	F.	М.	М.	F.	М.	F.	М.	М.
3	-						- -				1					1		• • • •	••••	
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TABLE VII.-ADMISSIONS AND DEATHS IN THE

•					E	mpl	oyee	s.				
		A	dmis	sion	s.				Dea	ths.	,	
Diseases.		Wh	ite.					Wh	ite.			
		neri- ns.	Eu	ro-	Bla	eck.		eri- ns.	Eu pea	ro- ins.	Bla	ck.
	M.	F.	М.	F.	м.	F.	м.	F.	м.	F.	м.	F.
General diseases—Contd.						-						
Anemia secondary, cause						1						
not determined												
ther general diseases												
Alcoholism, acute or chronic	1						1					ļ
llcoholism, acute					1							
lcoholism, chronic					;-							· • •
reonorie psychosis					1							• • •
diseases of the nervous sys- tem and of the organs of special sense.												
oftening of the brain Paralysis without specified												
Paralysis without specified cause					1							
ation												
Dementia precox					1							
Lysteria					;-							
euritis. ther diseases of the nerv- ous system. Jeurasthenia.					1							
Journathania	1				1							
Diseases of the eyes and	1	1	1	1	1	1						
their annexa	. 1			1	4						j	
Diseases of the ears	. 1											
$Diseases\ of\ the\ circulatory\\ system.$												
Organic diseases of the hear Aneurysm	t		1		1							
rteriosclerosis					1					1		
Embolism and thrombosis.												
iseases of the veins (varices, hemorrhoids, phle-												
bitis, etc.) Hemorrhoids			1									
Diseases of the lymphatic system (lymphangitis,												-
etc.)	-		1		1							
ymphadenitis (nonvene- real)		1	1		1		1		1	1	1	1

21

HOSPITALS OF THE PANAMA CANAL-Continued.

			No	nem	ploye	es.						Nor	res	ideı	ıts.				
	Adr	nissi	ons.			Í	Death	ıs.		A	lmi	ssio	ns.		Dea	ths			
٠.	w.					w.												ns.	
Sol- l'rs.	Otl	iers.]	3.	Sol- d'rs.	Otl	ners.	F	3.	M	7.	F	3.	V	٧.	F	3.	Total admissions.	Total deaths.
М.	м.	F.	М.	F.	м.	м.	F.	м.	F.	м.	F.	М.	F.	М.	F.	М.	F.	Totals	Total
4 1	1	1	1	1		i												1 1 5 4 1	
1		2	1			1												6	
1		1	2 4	1 3 1				1		i								5 9 1 3	
2 3 6			2 2 1	2				1										3 3 13 8	
	 1		1 1	1		 1	 1			1		•••		•••		•••		5 1 3	
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TABLE VII.—ADMISSIONS AND DEATHS IN THE

			ro- ins.		ick.	ca:	eri- ns.	ite.	ro-		ick.
м. 	neri- ns.	Eu	ns.			ca:	eri- ns.	Eu		Bla	ck.
м. 	ns.	pea	ns.			ca:	ns.			Bla	ck.
2	F.	м.	F.	м.	F.	7.5			,		
2	•				- 1	М.	F.	M.	F.	М.	F.
2											
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	1 1 2 3 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 1 2 1 2 1			1 1					

HOSPITALS OF THE PANAMA CANAL—Continued.

				nts.	ide	ıres	Nor						æs.	ploye	nem	No			•
		3.	ths	Dea		ıs.	sior	mis	Ad		ıs.	Death	I			ons.	nissi	Adı	
	ns.												w.					w.	
Jan 4 ho	Total admissions.	•	В	7.	W	3.	В	7.	W	3.	F	ners.	Oth	Sol- d'rs.	3.	I	ners.	Otl	Sol- l'rs.
Motol doothe	Total 8	F.	М. —	F.	м.	F.	м.	F.	м.	F.	м.	F.	м.	М.	F.	м.	F.	М.	М.
	9 1 9 3 1 5 4 1								1	1					1 1 1	1	1	1 3	6
	3 10 10 2 2 2								4 1						1		2 1 	3 1	1 1
	12 4 1 7 11 14								····				1		2 5 2	3	1 1 	1	1 2 7 1
	11 5 1 1 4														1 1 		1 1	1	3 2 2
	1 13											 1					1		
	9									1	1	2			1	3	4		

TABLE VII.-ADMISSIONS AND DEATHS IN THE

					F	Empl	oyee	s.				
		A	dmi	ssior	ıs.				Dea	ths.		
Diseases.		Wł	ite.					Wł	ite.			
		eri- ns.		ro- ns.	Bla	ek.		neri- ns.		ro- ns.	Bla	ek.
	м.	F.	М.	F.	м.	F.	м.	F.	М.	F.	М.	F.
Nonvenereal diseases of the genito-urinary system and annexa—Continued.		4										
Pyelonephrosis Calculi of the urinary pas-												
sages	1	l					::::	:				
urinary abscess, etc					i						1	
Aypertrophy of prostate Nonvenereal diseases of the male genital organs Hematocele	l .	1	i i		I							
Hydrocele Uterine tumor, noncancer-				••••	2							
ous												
the ovary Salpingitis and other diseases of the female genital												
organsBenign tumor of breast The puerperal state.						1						
Normal labor												
Normal labor Accidents of pregnancy Extra-uterine pregnancy. I yperemesis gravidarum Abortion. Puerperal hemorrhage Other accidents of labor. Puerperal septicemia.												
Other accidents of labor Puerperal septicemia Puerperal diseases of the												
breast						••••	••••					
the cellular tissue. Furuncle					;-							
Acute abscess Phlegmon and celluitis Ulcer of the skin meeting contention	2				1 2 3 1			••••		••••		
Impetigo contagiosa	1				 2	••••	••••			••••	••••	

HOSPITALS OF THE PANAMA CANAL-Continued.

			No	nem	ploye	es.]	Non	resi	den	ıts.				
	Adn	nissi	ons.			I	eath	s.		Ad	mis	sion	ıs.	:	Dea	ths			
	w.	0				w.												ns.	
Sol- d'rs.	Oth	ers.	I	3.	Sol- d'rs.	Otl	hers.	I	3.	W	7.	I	3.	V	V.	I	3.	Total admissions.	Total deathe
м.	М.	F.	м.	F.	м.	м.	F.	м.	F.	м.	F.	М.	F.	М.	F.	М.	F.	Total	Thotal
	••••		1	1														2	-
2	1	2		1						••••			•••					6	:
••••			2													ļ		3	
• • • •										1				1				3 1	-
 1	2		1															1 3	-
		5		3				····			ļ							1 8	-
		1		2														3	
		2 1		5					1									8	
• • • •		14 2		5 1 2 1														19 3 2 1 7	
				4														1 7	1:
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1										1								2	
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TABLE VII.—ADMISSIONS AND DEATHS IN THE

					3	Emp	loye	8.				
1		A	dmis	sion	s.				Dea	ths.		
Diseases.		Wh	ite.				White.					
	Ameri- Euro- cans. peans.					Euro- peans.		Black.				
	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.	М.	F.
Diseases of the bones and of the organs of locomotion.	1											
Diseases of the bones (tu- berculosis excepted)		2			1 2							
Arthritis Amputations Other diseases of the organs of locomotion	1				2							
Malformations.	•						••••	••••		•		
Congenital malformations (stillbirth not included)					1							
Diseases of early infancy.												
Newborn child Premature birth										::::		
Affections produced by exter- nal causes.												
Poisoning by food Other acute poisonings Conflagration	2											
Burns (conflagration ex- cepted)					4							
Fraumatism by firearms Fraumatism by cutting or piercing instruments	1		4		2							
Traumatism by fall Traumatism by machines	1		2		7							
raumatism by other crush- ings (vehicles, railroads, landslides, etc.)			1		14							
njuries by animals Electricity (lightning ex-												
cepted)ractures (cause not speci- fied)	3	••••			1 2			••••		••••	••••	
prains Other external violence	5		4		2 24							
Ill-defined diseases.				-								
ll-defined organic disease infections of undetermined origin	2		••••		6				••••			
No disease					1							
Total	76	6	43	1	291	2	1				4	

HOSPITALS OF THE PANAMA CANAL—Continued.

			No	nem	ploy	ees.						Nor	res	ideı	nts.				
	Adı	nissi	ons.			I	eath	ıs.		Ad	mis	sior	ıs.	:	Dea	ths			
	w.					w.												ns,	
Sol- d'rs.	Oth	iers.	I	3.	Sol- d'rs.	Oth	iers.	I	3.	W	<i>r</i> .	F	3.	V	v .	F	3.	Total admissions.	Total deaths.
м.	м.	F.	м.	F.	м.	м.	F.	м.	F.	м.	F.	M.	F.	М.	F.	М.	F.	Total	Total
							-			10									
1 2 1		3	 1															5 8 5	
1						••••		••••					•				•	2	
••••		`1	1															3	
	4	.11	1	3 2				···i	<u>.</u>						:::			19 3	
1	1	1 1	 1															5 1 2	
		1			 1							·i·						5 3	i
3	i	1	i	1	1					i								15 16 6	
<u>.</u>	1		2		- ; ;													18 1	
••••																		2	
3 2 3	2		1	4						i	:::		•••	:::			 	9 4 43	
1																		1	
4	···i	10	2	1 4						1								16 18	
150	47	89	80	117	1	4	5	7	14	26		2		1			1	930	38

TABLE VIII.—CONSOLIDATED A-White Americans. F-White

	ň.		mair uly		Ad	lmitt	ed.		Died	
	4.3	A.	F.	В.	A.	F.	В.	A.	F.	В.
•	ANCON HOSPITAL.									
	Panama Canal employees. Panama Railroad employees. Panama pay patients. Other pay patients. Charity patients.	106	17 7 28 2	118 55 1 49 35	57 10 213 18	25 5 30 3	147 59 2 141 18	1 5	3	2 1 8 4
	Total.	128	54	258	298	63	367	6	3	15
	Insane department.	-		-	-	=	-	-		
	Panama Canal employees. Panama Railroad employees. Panama pay patients Other pay patients Charity patients.	2	5 31 3 5	10 5 172 1 48	1	2 1	2 10 2 1		2	6
	Total	11	44	236	1	3	15		2	6
	Grand total	139	98	494	299	66	382	6	5	21
	Corozal farm.	-						-		-
	Panama Canal employees		10	44		4	10			
	Chronic ward.									
	Charity patients			28			2			
	COLON HOSPITAL.	-		-	-		-	-	=	-
	Panama Canal employees. Panama Railroad employees. Panama pay patients. Other pay patients Charity patients	1	2 1 1 2	2 11 3	13 2 2 14 3	11 3 2 19 2	33 52 13 9 5		1	1 1 2 1
	Total	11	6	16	34	37	112		1	5
	PALO SECO LEPER ASYLUM.		-	_		-	=	-		-
	Panama Canal employees. Panama Railroad employees. Panama pay patients. Other pay patients. Charity patients.		2 2	3 37 21			1			
	Total		4	61			2			
	GRAND TOTAL.	<u> </u>	-							-
	Panama Canal employees. Panama Railroad employees. Panama pay patients. Other pay patients. Charity patients.	3 2	8	177 71 210 53 132	70 12 2 228 21	8	191 113 26 152 26	1 5	3 3	3 1 7 10 5
	Total	150	118	643	333	107	508	6	6	26

HOSPITAL REPORT. foreigners. B=Blacks.

						Rei	mair	ning	Average	number c	onstantly	sick.
Dis	charg	ed.	Tra	nsfer	red.		uly 3		Whi	te.		
A.	F.	В.	A.	F.	В.	A.	F.	В.	American.	Foreign.	Black.	Total.
	·											
54 7	25 4	146 58			3 2	17 5	16 8	114 53	21.90 3.52	16. 29 5. 90	111. 42 55. 97	149. 61 65. 39
224 16	38	108 22		1	3 5	90 7	16 1	3 71 22	97. 65 4. 22	$21.22 \\ 1.72$	1. 58 64. 84 30. 25	1. 58 183. 71 36. 19
301	71	334		2	13	119	41	263	127. 29	45. 13	264.06	436.48
							5	10		5.00	10.00	15.00
	2	1			····	····	29	7 173	2.00	31. 19	5. 55 172. 29	5. 55 205. 48
5 1	1	1				1 3	3 5	3 48	1.71 3.64	2.81 6.00	2.32 46.81	6. 84 56. 45
6	3	2			2	6	42	241	7.35	45.00	236. 97	289. 32
307	74	336		2	15	125	83	504	134.64	90.13	501.03	725.80
	2	1					12	53		10.74	48.71	59. 45
:		7			3			20			22. 55	22. 55
15 2 1 12	10 1 2 15	22 47 4 2 1	1 2 1	2 1 	1 11 7 6 3	3 1 5 2	1 2 6 1	11 5 1 2	4.51 1.00 .12 2.32 .29	2. 48 1. 32 . 03 6. 41 . 48	6.80 11.48 1.19 2.03	13. 79 13. 80 1. 34 10. 76 1. 02
30	28	76	4	4	28	11	10	19	8. 24	10.72	21.75	40.71
								4			3. 71	3.71
							2	38		2.00	37.58	39.58
							2	21		2.00	21.00	23.00
							4	63		4.00	62.29	66. 29
69 9 1 241 17	37 5 4 54 4	169 105 5 110 31	1 2 1	3 1 1	4 13 9 9 11	20 6 2 96 12	34 10 31 25 9	192 65 215 76 111	26. 41 4. 52 2. 12 101. 68 8. 15	34. 51 7. 22 33. 22 30. 44 10. 20	180, 64 73, 00 212, 64 69, 19 120, 86	241. 56 84. 74 247. 98 201. 31 139. 21
337	104	420	4	6	46	136	109	659	142.88	115. 59	656.33	914. 80

TABLE IX.—CONSOLIDATED DISPENSARY REPORT.

EMPLOYEES TREATED IN QUARTERS.

	iı	nain- ng 16 1.	A.a.	mit- od.	Di	ed.		is- ged.	Tra	ns-	ir	nain- ng .e 30.		Days	lost.
	w.	В.	w.	В.	w.	В.	w.	в.	w.	В.	w.	в.	w.	в.	Total.
Ancon Balboa Pedro Mi-	3		88 85	4			85 82	4	2 2		1 4		164 209	12	164 221
guel Paraiso			8 19				6 19	3	1		1		23 29	4	23 33
Gamboa Gatun Colon	1 2 6	1 17	1 9 86	3 5 34			1 10 87	3 6 40	1		1 5	11	24 192	2 22 426	6 46 618
Total.	12	18	296	49			290	56	6		12	11	645	466	1, 111

ALL CASES TREATED, BUT NOT EXCUSED.

	Employe			Black.		White	Total.	
Ancon 2,475 Balboa 3,382 Pedro Miguel 525	Black.	Total.	White.	Black.	Total.	White		
Balboa 3,382 Pedro Miguel 525				1		тише.	Black.	Total.
Gamboa 49 Gatun 541 Colon 863 Total 8,646	3, 891 3, 684 591 2, 658 178 1, 560 2, 953	6,366 7,066 1,116 3,469 227 2,101 3,816	1,779 929 463 512 49 666 726	2,628 840 510 731 347 1,445 755	4, 407 1, 769 973 1, 243 396 2, 111 1, 481	4, 254 4, 311 988 1, 323 98 1, 207 1, 589	6, 519 4, 524 1, 101 3, 389 525 3, 005 3, 708	10, 773 8, 835 2, 089 4, 712 623 4, 212 5, 297 36, 541

CONSOLIDATED ADMISSIONS REPORT.

e	White.	Black.	Total.
Total admissions to hospitals, excluding Corozal farm and chronic ward	436	504	940
	296	49	345
Total Less number of patients transferred between hospitals and from quarters to hospitals, whose admissions are duplicated in above figures.	732	553 43	1,285 59
Net admissions to hospitals and quarters	716	510	1, 226
	412	326	738
	1, 166, 30	132, 39	262, 11

TABLE IX.—CONSOLIDATED DISPENSARY REPORT—Continued.

CONTAGIOUS AND INFECTIOUS DISEASES REPORTED.

Disease.	Panama.	Colon.	Canal Zone.	Total.
Dysentery Aglaria Pneumonia	35	40 3	6 126 2	7 201 5
MeaslesVhooping cough	11	3	3	17
Aumps Puberculosis			1 7	36
Pyphoid fever	3	i	2	16
hicken pox. Opthalmia neonatorium.			1	1
Diphtheria Leprosy	2		2	8
Pelagra	100	51	156	307

TABLE X.—NUMBERS OF EMPLOYEES CONSTANTLY SICK IN HOSPITALS AND QUARTERS.

	White.	Colored.	Total.
Hospitals: Ancon Hospital. Colon Hospital Palo Seco Leper Asylum	9.31	167. 39 18. 28 3. 71	215. 00 27. 59 3. 71
Total	56.92	189.38	-246.30
Quarters: Ancon. Balboa. Pedro Miguel. Paraiso. Gamboa. Gatun. Colon.	. 13 . 77 6. 19	.39 .13 .06 .70 13.74	5. 29 7. 13 74 1. 07 . 19 1. 47 19. 93
-	Hos- pitals.	Quarters.	Total.
Average number of employees constantly sick: White. Colored. Total	56. 92 189. 38 246. 30	20. 80 15. 02	77. 72 204. 40 282. 12
	240.30	00.02	202. 12
A verage number of employees constantly sick per 1,000: White. Colored.	13.43 6.41	4.91 .51	18.34 6.92
Total	7. 29	1.06	8.3

Table XI.—AVERAGE LENGTH OF STAY IN HOSPITALS OR QUARTERS FOR EACH ADMISSION OF SICK EMPLOYEE.

	White.	Black.	Total.
Hospitals: Ancon Hospital Colon Hospital	12. 10 9. 49	22.48 6.30	19.84 7.19
Quarters: Ancon. Balboa Pedro Miguel. Paraiso Gamboa. Gatun. Colon.	2. 18 2. 43 3. 29 1. 53 2. 50 2. 60 2. 25	3.00 1.33 .66 3.83 14.05	2. 18 2. 45 3. 29 1. 50 1. 40 3. 06 5. 97

TABLE XII.-FINANCIAL STATEMENT.

	June, 1916.	Мау, 1916.	June, 1915.
Administration: Chief health office	\$566.43	\$695.35	\$747.66
Ancon Hospital	26, 075, 79	26,744.97	25, 244. 94
Board of Health Laboratory	. 2, 107.05	1,875.32	1,670.27
Corozal farm	6,024,47	5, 586. 15	5, 625. 79
Chronic ward	229.08	249.61	248.93
Colon Hospital	4, 316, 32	4, 494.36	3,398.71
Palo Seco Leper Asylum	1,508.86	1,708.31	2,463.56
Santo Tomas Hospital	. 805.50	785.83	969.45
Medical storehouse		1,762.73	820.06
Depreciation	. 834.15	823.94	
	43, 496. 63	44,031.22	40, 441. 71
District dentists	. 249.48		6.98
Naos Island		•	178, 62
Balboa		1,181.66	1,050,21
Corozal			697, 66
Pedro Miguel	448.99	446.33	548.43
Paraiso	. 600.97	594.02	641.51
Culebra			1.90
Gamboa	. 260.44	215.88	140.08
GatunToro Point	. 577.24	692.69	744.09
	3, 198. 52	3, 130, 58	4,009.48
Sanitary division:			
General inspector	50.00	50,00	50,00
Health office, Panama	3, 630, 77	3,605.57	3, 739, 00
Street cleaning	4, 128. 26	3, 909. 94	4, 273. 79
Health office, Colon	3,007.35	3, 292, 49	2, 322, 67
Street cleaning	2,327.39	1,711.72	2, 231. 89
	13, 143.77	12, 569. 72	12,617.35
Zone sanitation:			
Ancon	2,584.37	1,417.51	1,525.58
Balboa	. 2,215.55	1, 138.11	2,909.40
Corozal	. 2,772.26	2,094.87	1,666.81
Pedro Miguel	4,043.61	2,341.01	2, 193. 53

TABLE XII-FINANCIAL STATEMENT-Continued.

	June, 1916.	May, 1916.	June, 1915.
Zone sanitation—Continued.			
Culebra			\$381.26
Frijoles	\$70.22	\$62.70	100.41
Gatun		3, 770. 25	2, 188. 19
Cristobal-Mount Hope	2,374.31	2,017.85	1,963.75
-	31, 641. 74	25, 412. 02	25, 546. 28
Quarantine division:			
Chief quarantine office	117.23		181.75
Balboa-Panama.	2.188.81	1,922.03	1,888.74
Colon-Cristobal	3, 172. 94	3,022.05	2, 889. 24
	5, 478. 98	4,944.08	4, 959. 73
RECAPITULATION.			
Chief health office	566.43	695.35	747.66
Hospital division		44,031.22	40, 441. 71
Dispensaries	3, 198, 52	3, 130, 58	4,009.48
Sanitary division	31,641.74	25, 412. 02	25, 546. 28
Quarantine division	5, 478. 98	4,944.08	4, 959. 73
Total	84, 382.30	78, 213. 25	57, 704.86

TABLE XIII.—ANCON HOSPITAL. REPORT OF NATIONALITY OF PATIENTS TREATED.

	Total num-	American.		Other nations.	
	ber treat- ed.	White.	Black.	White.	Black.
Hospital:					
Panama Canal employees	379	72	2	42	263
Panama Railroad employees	138	12		12	114
Panama Government patients	3				3
Other pay patients	567	319	1	58	189
Charity patients	81	23		5	53
Total	1,168	426	3	117	622
Asylum:					
Panama Canal employees	15			5	10
Panama Railroad employees	7				-7
Panama Government patients	217	2		33	182
Other pay patients	13	6		4	3
Charity patients	58	4		5	49
Total	310	12		47	251
Grand total	1,478	438	3	164	873
Soldiers	227	227			
Chronics	30	.201	• • • • • • • • • • • • • • • • • • • •		30
Farm (cripples)	68			14	54

TABLE XIII.—ANCON HOSPITAL—Continued. REPORT OF DAYS LOST IN HOSPITAL.

	Total.	Ameri- can.	Other white.	Black.
Hospital:				
Panama Canal employees	4,638	679	505	3,454
Panama Railroad employees	2,027	109	183	1,735
Panama Government patients	49			49
Other pay patients	5,695	3,027	658	2,010
Charity patients	1, 122	131	53	938
Total	13, 531	3,946	1,399	8, 186
Asylum:				
Panama Canal employees	465		155	310
Panama Railroad employees	172			172
Panama Government patients	6,370	62	967	5,341
Other pay patients	212	53	87	72
Charity patients	1,750	113	186	1,451
Total	8,969	228	1,395	7,346
Grand total	22,500	4,174	2,794	15, 532
Soldiers	2,247	2,247		
Chronics.	699			699
Farm (cripples)	1,843		333	1,510

Average cost of subsistence per day, \$0.2629.

WARD LABORATORY REPORT.

Blood examinations, total number	576
Estivo-autumnal	115
Quartan	2
Tertian.	15
Differential counts	9
Leucocyte counts.	103
Hemoglobin estimations.	76
Red blood counts.	5
Stool examinations, total number.	683
Ameba	1
Ascaris lumbroinocides.	11
Cercomonas intestinalis.	2
Ciliated nomads.	2 8
Entameba (hystolitica and tetragena)	10
Guaiac tests.	28
Pus and blood.	95
Strongloides.	16
Tricocephalus dispar	30
Uncinaria (ova)	15
Unicipalia (Ova)	1,949
Urine examinations, total number	393
Albumen. Albumen estimations, quantitative.	6
	31
Bile Casts	389
	832
Epithelia	8
Guaiac tests Indocan	50
m 111 1	926
	159
Sugar (all negative)	109

TABLE XIII.-ANCON HOSPITAL-Continued.

WARD LABORATORY REPORT-Continued.

Spatum examinations, total number	203
	20
Smear examinations, total number	41
Urethral	20
Urine	7
Vaginal	4
Spinal fluid	6
Vomitus	3
Nasal	1

REPORT OF SURGICAL OPERATIONS.

	Number.	Died.
Amputations:		
Shoulder	1	
Thigh	1	
Leg	ī	
Digits, multiple	ī	
Leg, double		1
Operations on bones:	_	
Ostiectomy	4	
Wiring of fractures, simple. Wiring of fractures, compound.	2	
Wiring of fractures, compound	1	
Mayo bunion	1	
Arthroplasty hip	1	
Arthroplasty knee	1	
Adenectomy:		
Cervical	2	
Axillary		
Inguinal, single		
Inguinal, double	i	
Femoral	5	
Herniotomy:		
Inguinal, single Inguinal, double	9	
Inguinal double) š	
Ventral	ĭ	
Genito-urinary tract:	_	
Urethrotomy, internal	1	
Urethrotomy, external	3	
Urethrotomy, external Varicocele, radical cure	1 3	
Hydrocele, single, radical cure Hydrocele, double, radical cure	3 3	
Hydrocele, double, radical cure	ĭ	
Orchidectomy	2	
Orchidectómy Epididymotomy	8	
Amputation of scrotum	ĭ	
Curetage uteri	4	
Perineoplasty		
Trachelorrhaphy	ž	
Obstetrical:	_	
Cæsarian section, abdominal	2	
Perineorrhaphy	ī	
Rectum:	_	
Hemorrhoids, radical cure	3	
Fistula in anus, excision of	l ĭ	
General:		
Varicose veins, excision of	1	
Tenorrhaphy	î	
Tenorrhaphy. Myorrhaphy	î	1
Excision of surface neoplasms	2	1
Plastic operation for severe injuries.	ĩ	

TABLE XIII.—ANCON HOSPITAL—Continued. REPORT OF SURGICAL OPERATIONS—Continued.

			Number.	Died.
Laparotomy: General peritonitis (not traumatic or Gastro-enterostomy Appendectomy Appendectomy with local peritonitis. Colostomy Sigmoidopexy Supravaginal hysterectomy Hysteremyomectomy Salpingectomy, single Salpingectomy, double. Ovarian cystectomy Suspensio-uteri Major operations, various other			1 13 5 2 1 5 4 1 1 1 1 2]
Total		•••••	. 257	
REPORT OF OPERATIONS	EYE AN	D EAR CLI	NIC.	
Fonsilectomy Adenoidectomy Pterygium transplantation Purbinectomy Magnet removal of steel from eyeball Minor operations: Eye Ear Throat	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		2 1 2
Total				
TotalRefractionsReport of Out-Pa		• • • • • • • • • • • • • • • • • • • •	,	
Refractions		• • • • • • • • • • • • • • • • • • • •	,	5
Refractions	Total	PARTMENT.	Pay	Prescrip
Refractions. REPORT OF OUT-PA Clinic. Medical Surgical.	Total visits.	New cases.	Pay cases.	Prescriptions.
Refractions. REPORT OF OUT-PA Clinic. Medical Surgical Eye and Ear	TOTAL visits. 250 232 689 1,171	PARTMENT. New cases. 166 92 290 548	Pay cases. 33 7 1 41	Prescriptions.

TABLE XIII.-ANCON HOSPITAL-Continued.

BOARD OF HEALTH LABORATORY-MONTHLY REPORT.

Bacteriological examinations of—	
Blood cultures	23
Throat cultures	59
Urines	30
Stools	19
Sputum	6
Blood, horse, for trypanosoma	1
Pathological fluids, exudates, etc	8
Cultures of autopsies	1
Blood, horse, for trypanosoma. Pathological fluids, exudates, etc. Cultures of autopsies. Ice cream.	4
M11K	1
Wasserman reactions	605
Leper suspects	1
Agglutination reactions	5 2
Autogenous vaccines prepared	2
Antityphoid vaccinations	6
Animal inoculations	11
Autogenous vaccines prepared Antityphoid vaccinations Anima inoculations Dairy milk from Corozal farm	26
Dark-field examinations	2
Blood for malaria. Vaccine points (smallpox) manufactured.	3
Vaccine points (smallpox) manufactured	2,300
Chemical examinations of—	_
Mother's milk	3
Urines	18
Fat determinations of milk from Corozal dairy	20
Butyric acid tests	10
Colloidal gold	5
Colloidal gold	1
"Concentrol"	5 1 1 1
"Zest"	1
Beef	2
Pathological tissues prepared, paraffin	228
Pathological tissues prepared, frozen	4
Pathological tissues prepared, frozen. Surgical tissues reported. Autopsies performed.	33
Autopsies performed	29
Animals autopsied	30
Rats examined:	
Mus musculus	
Mus norwegicus 904	
Mus alexandrinus	
Mus rattus	
D. Marana A. Jana A.	1,603
Bodies embalmed	4
Interments at Corozal	10
Taken to Panama	7
Cremations	22

COROZAL HOSPITAL.

STATEMENT OF COMMITMENTS, DISCHARGES, AND DEATHS, JULY, 1916. COMMITMENTS.

	Male.	Female.
From Canal Zone, first admission	5 8	2 4
Total	13	6

COROZAL HOSPITAL-Continued.

DISCHARGES.

	Well.		Improved.		Unimproved.	
	Male.	Female.	Male.	Female.	Male.	Female.
Costa Rica			1	1	11	
St. Vincent. United States	1 1				2 5	
Total	2		2	2	6	

1 1 transferred to Ancon Hospital for surgical treatment.
 2 5 deported to the United States.

DEATHS.

Medical diagnosis.	Mental diagnosis.	Male.	Female.
Pyonephritis; cystitis; urethral strictures; leprosy.	Psychosis undetermined.	1	
Arteriosclerosis	Psychosis associated with arteriosclerosis.	1	
Psychosis; syphilis	Psychosis associated with cerebral syphilis.		1
Disseminated tuberculosis; cyst of brain; epilepsy.	Psychosis associated with epilepsy.	•••••	1
Syphilis, tertiary; pellagra	Psychosis associated with cerebral syphilis.		1
General paralysis of insane; gangrene of lungs; dysentery.	General paralysis of the insane.	1	•••••
Softening of brain; syphilis	do	1	
Disseminated tuberculosis; epilepsy.	Psychosis associated with epilepsy.		1

TABLE XIV.—COLON HOSPITAL.

NATIONALITY.

*	White Amer- ican.	White foreign.	Black.	Total.
Panama Canal employees Panama Railroad employees Panama pay Other pay Charity cases	18 3 2 19 3	13 4 3 21 2	35 63 13 12 5	66 70 18 52 10
	45	43	128	216

TABLE XIV.—COLON HOSPITAL—Continued.

LABORATORY REPORT.

Blood examinations. Estivo-autumnal Tertian. Quartan. White blood counts. Red blood counts. Differential counts Stool examinations. Uncinaria. Ascaris. Oxyuris vermiculosis. Tricocephalus dispar. Urine examinations. Albumen.	164 63 6 1 7 2 8 15 1 2 4 6 141 61
Sugar Casts Epithelia cells. Red blood counts. White blood counts. Triple phosphate. Calcin oxalate. Sputum examinations. Positive for tubercle bacilli. Smear examinations. Positive for gonorrhea. SURGICAL OPERATIONS.	5 25 65 2 15 5 6 9 2 3
Amputations: Forearm. Digits, multiple. Operations on bones: Cranlectomy, exploratory. Herniotomy: Inguinal, single. Genito-urinary tract: Urethrotomy, external.	1 1 1 5
Cyretage uteri. Obstetrical: High forcens	1 1 1
Version. Perineorrhaphy. General: Extensive injuries to soft parts, operation for. Laparotomy: Appendectomy. Appendectomy with local peritonitis. Minor operations, various. Minor operations, various (dispensiv)	1 2 1 1 7
Minor operations, various (dispensary).	126

TABLE XV.—PALO SECO LEPER ASYLUM.

NATIONALITY OF PATIENTS.

Class.	Number treated.		Americans.		Others.	
	White.	Black.	White.	Black.	White.	Black.
Panma Canal employees	2 2	4 38 21			2 2	38 21
Total	4	63			4	63

[.] Cost of subsistence, per patient, per day, \$0.26.

TABLE XVI.—SANTO TOMAS HOSPITAL.

b.	Remain- ing July 1.	Admit- ted.	Dis- charged.	Died.	Remain- ing July 31.
Pay cases	14 429	64 832	33 736	1 93	44 432
Total	443	896	769	94	476

Average number of patients constantly sick	
Total numbers of days' treatment.	
Average number of days' treatment for each patient	10

NATIONALITY.

Class.	Number	Americans.		Other nations.	
	treated.	White.	Black.	White.	Black.
Pay cases	78 1,261	2 11		25 103	51 1, 147
Total	1,339	13		128	1,198

DISPENSARY REPORT.

Class.	White.	Black.	Total.
Natives. Foreigners.	48 71	632 335	680 406
Total	119	967	1,086

DISEASES TREATED.

Typhoid fever	5
Typhoid fever	57
Measles	4
Diphtheria and croup	1
Influenza	9
Dysentery	8
Leprosv	1
Other epidemic diseases	4
Purulent infection and septicemia	9
Pellegra	5
Beriberi	1
Tuberculosis of the lungs	19
Syphins	36
Soft chancre	8
Gonococcus infection	31
Cancer and other malignant tumors of the buccal cavity	1
Cancer and other malignant tumors of the female genital organs	1
Cancer and other malignant tumors of the organs not specified	2

TABLE XVI.-SANTO TOMAS HOSPITAL-Continued.

DISEASES TREATED-Continued.

Alcoholism, acute or chronic.	1
Alconolism, acute or enronic	9 2 9 1 5 5 8 1 8 9 4 7
Locomotor ataxia. Other forms of mental alienations.	2
Other forms of mental alienations	9
Epilepsy	1
Hysteria	5
Hysteria. Other diseases of the nervous system	5
Other diseases of the eyes and their annexa	8
Diseases of the ear	1
Organic diseases of the heart	8
Diseases of the arteries	9
Diseases of the veins	4
Diseases of the lymphatic system.	7
Diseases of the nasal fossæ.	,
Chronic bronchitis.	2 17
Broncho-pneumonia.	1,
Pneumonia.	- 4
Fileumonia	2 2 3 1
Pleurisy	3
Asthma	1
Diseases of the teeth and gums	2 15
Diseases of the pharynx	15
Other diseases of the stomach	3
Diarrhea and enteritis under 2 years	6
Diarrhea and enteritis 2 years and over	10
Ankylostomiasis. Appendicitis and typhlitis	60
Appendicitis and typhlitis	6
Hernias, intestinal obstructions. Diseases of the anus and fecal fistula.	10
Diseases of the anus and fecal fistula.	2
Other diseases of the intestines	2
Biliary calculi	1
Bright's disease	11
Bright's disease. Other diseases of the kidneys and annexa.	1
Diseases of the bladder.	2
Diseases of the marthy	9
Diseases of the urethra. Nonvenereal diseases of the male genital organs.	4
Nonvenereal diseases of the male gential organs.	9
Uterine tumor, noncancerous.	8 2 9
Metritis	3
Other diseases of the uterus.	2
Salpingitis and other diseases of the female genital organs	4
Nonpuerperal diseases of the breast.	
Normal labor	71
Accidents of pregnancy	28
Gangrene.	1
Furuncle.	1
Acute abscess. Other diseases of the skin and annexa.	12
Other diseases of the skin and annexa	32
Diseases of the bones	2
Diseases of the joints	10
Diseases of the joints	3
Congenital malformations	5
Congenital malformations. Nursling discharge from hospital without disease.	69
Other acute poisonings.	3
Burns.	3
Dullio.	24
Traumatism by meanus.	1
Traumatism by firearms. Traumatism by cutting or piercing instrument. Fractures.	8
Fractures	15
Other external violence	
Diseases not specified or ill defined	1
No disease	12
	700
Total	768

TABLE XVI.-SANTO TOMAS HOSPITAL-Continued.

SURGICAL OPERATIONS. .

	Number.	Died.
Amputation of arm. Amputation of digits, multiple. Traniectomy, decompressive. Destiectomy. Excision of maxilla.	1	
Amputation of digits, multiple	3	
ranjectomy, decompressive	1	
Ostiectomy	ī	
Excision of maxilla	2	
Union by nail	ī	
Union by nail. Adenectomy, cervical.	1	
Adenectomy igninal single		
Adenectomy, iguinal, single	3	
Herniotomy igninal single	9	
Herniotomy, iguinal, single Herniotomy, iguinal, double.	3	
Herniotomy, strangulated	ĭ	
Trothrotomy internal	1	
Trethrotomy external	$\hat{\mathbf{z}}$	
Tydrocele single radical cure	2	
Urethrotomy, external Hydrocele, single, radical cure Curetage, uteri Perineoplasty Excision of breast and axilla	7	
Perinennlasty	i	
Excision of breast and axilla	î	·····
Hemorrhoids, radical cure	4	
Fistula in anus, excision of	$\hat{2}$	
Funshot wound of soft parts operation for	ĩ	
Gunshot wound of soft parts, operation for	27	
Skin graft	12	
anaratomy for general peritonitis	ī	
Skin graft Laparatomy, for general peritonitis Laparatomy, for tuberculous peritonitis	î	
Annendectomy	6	
Appendectomy. Appendectomy with local peritonitis.	2	
Abscess of liver, paparo-hepatotomy. Pan-hysterectomy	ĩ	
Pan-hysterectomy	î	
an hysterectomy.	2	
Salpingo-oophorectomy.	6	
Suspensio-uteri		
For ectonic vestation	2	
For ectopic gestation	36	
Consillectomy.	7	
Mastoidectomy	1	
Enucleation eye		
Needling of eye		
Pterygium	1	
Total	160	
		1

TABLE XVII.—SUMMARY OF SANITARY WORK PERFORMED AND MATERIAL EXPENDED IN THE CANAL ZONE.

Work requests, supply department:	
Grass cutting	31
Screening	12
Miscellaneous	7
Work requests, municipal engineering department	20
Work requests, other departments	1
Work requests, other departments. Notices served to abate nuisances.	1
Arrests and convictions	1
Closets, inspection of	68 6
Stores, inspection of	26
Shops, inspection of	16
Garbage cans emptied	2,878
Closets disinfected	744
Rat traps in use	400
Rats destroyed	398

TABLE XVII.—SUMMARY OF SANITARY WORK PERFORMS MATERIAL EXPENDED IN THE CANAL ZONE—Continu	ED AND led.
Adult anopheles caught	5,149
Adult culices caught	23,629
Stegomia destroyed	31
Larvacide used gallons Crude oil used do Kerosene used do	548
Crude oil useddodo	15,047
Kerosene useddo	869
SUMMARY OF ROUTINE WORK DONE BY PANAMA HEALTH OFF	ICE.
General sanitation:	
Linear feet of ditches cleaned and maintained	18,960
Linear feet of new ditches dug	675
Gallons of larvacide used	600
Gallons of crude oil used	4,673
Gallons of crude oil used. Square yards of pools oiled.	355, 870
Water containers treated	355, 870 16, 377
Water containers treated Mosquito-breeding places found (Stegomyia, 108)	311
Fire broading all so found	51
Fly-breeding places found. Flies trapped (13,000 per quart)	114
ries trapped (13,000 per quart)quarts	
Number of rats killed.	1,324
Number of room disinfections. Square feet of vegetation removed.	13
Square feet of vegetation removed	345,700
Garbage collection:	
Number of loads of garbage removed to dump.	5,329- 9,236
Number of cubic yards of garbage removed to dump	9,236
Total number of cans garbage emptied	42,443
Buildings:	,
Number of buildings inspected. Number of plans for new buildings approved. Number of permits issued for repairs to old buildings.	4,573
Number of plane for new buildings approved	23
Number of passific feeted for anoise to old buildings	95
Patel of permits issued for repairs to old buildings.	118
Total number of building permits issued Number of buildings condemned	18
Number of buildings condemned	
Number of stables condemned Number of buildings demolished	1
Number of buildings demolished.	6
Street cleaning:	
Average number of square yards of streets cleaned daily	600,000
Average number of square yards of streets cleaned daily	45,000
Number of private properties cleaned during month	1
Number of notices served and nuisances abated	366
Vaccination:	
Number of vaccinations performed during month	295
Total number of vaccinations since Apr. 1, 1914	23,539
	,
War Daniel Court of Court of Marie House	_
Work Report for Colon and Cristobal and Mount Hope	S.
Gauthatian Calamana Cuistahala	
Sanitation, Colon and Cristobal:	0.005.000
Square yards street cleaned	3,895,800
Square yards alleys maintained	655,000
square yards street cleaned Square yards alleys maintained Number of private properties cleaned	772
Doses of quinine issued. Number of rats caught.	7,555
Number of rats caught.	150
Number of dogs caught.	39
Number of dogs killed	22
Loads of yard garbage disposed of	604
Number of dogs killed Loads of yard garbage disposed of. Number of cans garbage (cubic yards, 2,389).	67,072
Linear yards ditches maintained.	110
Acres of vegetation removed:	
Panama Railroad properties	34
Washington Ustal	
Washington Hotel. Panama Railroad Reservation, Colon.	6
ranama manroad neservavion, Colon	70,525
Square yards oiled. Number of receptacles treated. Number of mosquitoes caught on Colon Hospital screens:	10,020
Number of receptacies treated	40, 495
Number of mosquitoes caught on Colon Hospital screens:	100
Amophetes	120
Culex	1,119

TABLE XVII.—SUMMARY OF SANITARY WORK PERFORMED AND MATERIAL EXPENDED IN THE CANAL ZONE—Continued.

WORK REPORT FOR COLON AND CRISTOBAL AND MOUNT HOPE-Continued.

Sanitation, Colon and Cristobal—Continued.	
Number of mosquito-breeding places destroyed	5
Number of fly-breeding places destroyed	2
Number of buildings inspected	10,815
Gallons of larvacide used in Colon	176.06
Gallons of crude oil used in Colon.	560
Number of nuisances abated.	379
Building, Colon:	
Number of building plans approved	10
Number of permits to occupy issued.	16
Number of permits to repair issued Number of bills collected	44
Number of bills collected	146
Sowers, Colon:	
Number of new connections made during the month	7
Total number of connections made to date	1,331
Number of houses in which connections were made	6
Outstanding permits	48
Sanitation Cristobal	
Number of cans garbage (cubic yards 745)	14,176
Loads of vard garbage handled	194
Number of receptacles treated	11,925
Loads of yard garbage handled. Number of receptacles treated. Square yards oiled. Number of mosquito-breeding places destroyed.	10,900
Number of mosquito-breeding places destroyed	9
Number of fly-breeding places destroyed	4
Gallons of larvacide used	21
Gallons of crude oil used.	360
Number of buildings inspected	1,795
Number of nuisances abated.	52
Sanitation, Mount Hope:	-
Number of cans garbage (cubic yards, 137)	1,164
Square vards oiled	232,000
Number of recentacles treated	17,850
Square yards oiled Number of receptacles treated Number of mosquitoes caught in barracks—	,
Anopheles	491
Culex	1,455
Culex Number of mosquitoes caught in cars, in swamps, and Camp B—	
Anopheles	934
Culex	306
Number of mosquitoes caught in silver married quarters—	
Anopheles	78
Culex Number of mosquitoes caught in steamships—	2,002
Number of mosquitoes caught in steamships—	•
Anopheles	131
Culex	51
Culex Number of mosquitoes caught in Mount Hope village—	-
Anopheles	1,408
Culex	448
Total anopheles	3,042
Total anopheles	4,262
Gallons of larvacide used	100
Gallons of crude oil used.	3,771.72
Mount Hope Cemetery maintained	
Gallons of crude oil used. Mount Hope Cemetery maintained. Linear yards of ditches constructed, Mindi Island. Linear yards of ditches constructed, Mount Hope.	4,981
Linear yards of ditches constructed, Mount Hope	1,889
Linear yards of ditches maintained Square yards of vegetation removed	6,591
Square yards of vegetation removed	296, 735
Number of burials during the month	47
Number of mosquito-breeding places destroyed	170

TABLE XVIII.—CONSOLIDATED REPORT OF QUARANTINE TRANSACTIONS AT THE PORTS OF BALBOA-PANAMA AND COLON-CRISTOBAL.

Number of vessels inspected and passed	220 16
Total number of vessels entered	236
Number of special inspections made to enforce compliance with antiplague and mosquito-breeding regulations. Number of vessels fumigated on arrival. Number of vessels fumigated on departure. Number of vessels detained, but salled in quarantine.	109 18 4 6
Number of stowaways inspected. Number of crew examined. Number of passengers examined.	10 12,573 4,030
and the second s	16,613
Number of supplementary inspections	2,210
Number of persons vaccinated at port of arrival because of compulsory vaccination law. Number of persons vaccinated at port of departure or en route because of	420
compulsory vaccination law	1,255
	1,675
Number of persons held in quarantine at the detention houses to complete period of incubation of yellow fever or plague	298
of incubation of yellow fever or plague	1,921 2,219
	2, 213
Total number of persons landed from foreign ports: Cabin Steerage	1,661 1,617
	3,278
Total number of persons embarked for foreign ports: Cabin Steerage	1,844 1,805
	3,649
Total number of persons arriving from coast towns on small launches and sailing craft. Total number of persons sailing for coast towns on small launches and	1,665
sailing craft. Apparent increase for month from coast towns.	1, 233 432
Apparent decrease for month from foreign ports:	183
Steerage	188
	371
Number of persons rejected and deported	25 212
Number of inspections of docks. Number of inspections of vessels at docks.	17

TABLE XVIII.—CONSOLIDATED REPORT OF QUAR ACTIONS AT THE PORTS OF BALBOA-PANAL CRISTOBAL—Continued.	ANTINE IA AND	TRANS- COLON-
Total number of persons landedLess number for Pacific ports	4,	943 269
Total number of persons sailing		4,674 4,882
Total apparent decrease for month		208
IMMIGRATION REPORT FOR COLON AND	CRISTOB	AL.
From	Cabin.	Steerage.
Europe United States. Jamaica and West Indies. Venezuela. Colombia Cuba. Costa Rica. Bocas del Toro. Coast towns Total.	23 76 26 92 44	2 15 371 2 84 18 70 165 130
Grand total	s del Tor	552 276 130 1,808
Number of vessels inspected and passed. Number of crew inspected and passed. Number of passengers inspected and passed. Number of passengers, transit, inspected and passed.		232
No quarantinable disease has appeared in this port, and tof the port and surrounding territory are good.	he health	conditions
TABLE XIX.—STATEMENT OF QUININE	ISSUED.	
Quinine sulphate: Kilos Pounds avoirdupois		23.17 50.97

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TABLE XX.—PERSONNEL REPORT.

	July, 1916.			June, 1916.	July, 1915.
	Gold employ- ees.	Silver employ- ees.	Total employ- ees.	Total employ- ees.	Total employ-
Chief health office Medical storehouse. Quarantine division. Health office, Panama. Health office, Colon-Mount Hope. Ancon Hospital. Colon Hospital. Santo Tomas Hospital. Palo Seco Leper Asylum Zone sanitation. Hospital farm, Corozal Dispensaries: Balboa. Corozal. Gamboa. Gatun Naos Island. Paraiso. Pedro Miguel.	12 11 9 118 15 6 2 7 2 5	4 34 153 185 253 26 34 128 56 2	5 8 46 164 194 371 41 6 36 135 58 7 1 4 4 4 4	4 8 45 1555 1581 1811 359 40 6 19 139 139 77 1 4 4 3	4 10 42 160 159 341 34 5 32 113 50 6 4 1 4 1
·	204	880	1,084	1,034	973



